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	FOREIGN PATENT DOCUMENTS					
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ATTORNEY DOCKET NO. 1818.1030-003

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APPLICANT

Jonathan S. Stamler, et al.

FILING DATE January 31, 2002 CONFIRMATION NO. 1921

GROUP 1654

100	DEMINANT S	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Os	AR	Alayash, Abdu I., "Hemoglobin-based Blood Substitutes: Oxygen Carriers, Pressor Agents, or Oxidants?," Nature Biotechnology, 17:545-549 (1999).
	AS	Alayash, Abdu I. et al., "Hemoglobin and Free Radicals: Implications for the Development of a Safe Blood Substitute," Molecular Medicine Today, 1:122-127 (1995).
	AT	Ascenzi, Paolo et al., "Cooperative Effect of Inositol Hexakisphosphate, Bezafibrate, and Clofibric Acid on the Spectroscopic Properties of the Nitric Oxide Derivative of Ferrous Human Hemoglobin," Journal of Inorganic Biochemistry, 50:263-272 (1993).
	ΑU	Cassoly, Robert et al., "Conformation, Co-operativity and Ligand Binding in Human Hemoglobin," Journal of Molecular Biology, 91:301-313 (1975).
	AV	Chétrite, Gérard et al., "Affinity of Hemoglobin for the Cytoplasmic Fragment of Human Erythrocyte Membrane Band 3," Journal of Molecular Biology, 185:639-644 (1985).
	AW	Doherty, Daniel H. et al., "Rate of Reaction with Nitric Oxide Determines the Hypertensive Effect of Cell-Free Hemoglobin," <i>Nature Biotechnology</i> , 16:672-676 (1998).
	AX	Eich, Raymund F. et al., "Mechanism of NO-Induced Oxidation of Myoglobin and Hemoglobin," Biochemistry, 35:6976-6983 (1996).
	AY	Falke, Joseph J. et al., "Molecular Mechanisms of Band 3 Inhibitors. 1. Transport Site Inhibitors," Biochemistry, 25:7888-7894 (1986).
	AZ	Falke, Joseph J. et al., "Molecular Mechanisms of Band 3 Inhibitors. 2. Channel Blockers," Biochemistry, 25:7895-7898 (1986).
	AR2	Fox-Robichaud, Alison et al., "Inhaled NO as a Viable Antiadhesive Therapy for Ischemia/Reperfusion Injury of Distal Microvascular Beds," Journal of Clinical Investigation, 101(11):2497-2505 (1998).
ao	AS2	Galanter, William L. et al., "The Binding of Nitrate to the Human Anion Exchange Protein (AE1) Studied with <sup>14</sup> N Nuclear Magnetic Resonance," Biochimica et Biophysica Acta, 1079(2):146-151 (1991).

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CONFIRMATION NO.

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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2:219-225 (1990).

se several sheets if necessary)

July 8, 2003 FILING DATE January 31, 2002

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Gow, Andrew J. et al., "Reactions Between Nitric Oxide and Haemoglobin Under Physiological AT2 as Conditions," Nature, 391:169-173 (1998). Gow, Andrew J. et al., "The Oxyhemoglobin Reaction of Nitric Oxide," Proceedings of the AU2 National Academy of Sciences USA, 96:9027-9032 (1999). AV2 Hall, David M. et al., "Hyperthermia Stimulates Nitric Oxide Formation: Electron Paramagnetic Resonance Detection of •NO-Heme in Blood," Journal of Applied Physiology, 77(2):548-553 (1994).AW2 Head, C. Alvin et al., "Low Concentrations of Nitric Oxide Increase Oxygen Affinity of Sickle Erythrocytes In Vitro and In Vivo," Journal of Clinical Investigation, 100(5):1193-1198 (1997). AX2 Hsu, Li et al., "The Interaction of Human Erythrocyte Band 3 with Cytoskeletal Components, Archives of Biochemistry and Biophysics, 227(1):31-38 (1983). Jia, Li et al., "S-Nitrosohaemoglobin: A Dynamic Activity of Blood Involved in Vascular Control," AY2 Nature, 380:221-226 (1996). AZ2 Kermarrec, Nathalie et al., "Impact of Inhaled Nitric Oxide on Platelet Aggregation and Fibrinolysis in Rats with Endotoxic Lung Injury," American Journal of Respiratory and Critical Care Medicine, 158(3):833-839 (1998). AR3 Liu, Xiaoping et al., "Diffusion-limited Reaction of Free Nitric Oxide with Erythrocytes," Journal of Biological Chemistry, 273:18709-18713 (1998). AS3 Low, Philip S., "Structure and Function of the Cytoplasmic Domain of Band 3: Center of Erythrocyte Membrane-Peripheral Protein Interactions," Biochimica et Biophysica Acta, 864:145-167 (1986). Marletta, Michael A. et al., "Unraveling the Biological Significance of Nitric Oxide," Biofactors,

ATTORNEY DOCKET NO.

1818.1030-003

APPLICANT

EXAMINER A	DATE CONSIDERED
( Just 4)	11/22/04

Nitrosohemoglobin," Journal of Biological Chemistry, 275(22):16738-16745 (2000).

McMahon, Timothy Joseph et al., "Functional Coupling of Oxygen Binding and Vasoactivity in S-

PTO-1449 REPRODUCED

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

JUL 1 4 2003 2

July 8, 2003

Use several sheets if necessary)

ATTORNEY DOCKET NO. 1818.1030-003

APPLICATION NO. 10/066,320

APPLICANT

Jonathan S. Stamler, et al.

FILING DATE
January 31, 2002

confirmation no. 1921

GROUP 1654

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Os	AV3	McMahon, Timothy J. et al., "Concerted Nitric Oxide/Oxygen Delivery by Hemoglobin," Methods In Enzymology, 301:99-114 (1999).
	AW3	Moore, Edwin G. et al., "Cooperativity in the Dissociation of Nitric Oxide from Hemoglobin," Journal of Biological Chemistry, 251(9):2788-2794 (1976).
	AX3	Okubo, Kenshi et al., "Red Blood Cell Band 3," Journal of Biological Chemistry, 269(3):1918-1926 (1994).
	AY3	Pawloski, John R. et al., "Cell-Free and Erythrocytic S-Nitrosohemoglobin Inhibits Human Platelet Aggregation," Circulation, 97(3):263-267 (1998).
	AZ3	Pietraforte, Donatella et al., "Role of Thiols in the Targeting of S-Nitroso Thiols to Red Blood Cells," Biochemistry, 34:7177-7185 (1995).
	AR4	Rossaint, Rolf et al., "Inhaled Nitric Oxide for the Adult Respiratory Distress Syndrome," New England Journal of Medicine, 328(6):399-405 (1993).
	AS4	Santos-Silva, Alice et al., "Altered Erythrocyte Membrane Band 3 Profile as a Marker in Patients at Risk for Cardiovascular Disease," Atherosclerosis, 116:199-209 (1995).
	AT4	Soszynski, Miroslaw et al., "Penetration of Erythrocyte Membrane by Peroxynitrite: Participation of the Anion Exchange Protein," Biochemistry and Molecular Biology International, 43(2):319-325 (1997).
	AU4	Stamler, Jonathan S. et al., "Blood Flow Regulation by S-Nitrosohemoglobin in the Physiological Oxygen Gradient," Science, 276:2034-2037 (1997).
	AV4	Stamler, Jonathan S., "Redox Signaling:Nitrosylation and Related Target Interactions of Nitric Oxide," Cell, 78:931-936 (1994).
	AW4	Stamler, Jonathan S. et al., "(S)NO Signals: Translocation, Regulation, and a Consensus Motif," Neuron, 18:691-696 (1997).
Os	AX4	Sugrue, M.F. et al., "L-662,583 is a Topically Effective Ocular Hypotensive Carbonic Anhydrase Inhibitor in Experimental Animals," <i>British Journal of Pharmacology</i> , 99(1):59-64 (1990).

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JUL 1 4 2003 (Use several sheets if necessary)	FILING DATE January 31, 2002	confirmation no.	GROUP 1654

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		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
00	AY4	Takahashi, Yuko et al., "Nitrosyl Hemoglobin in Blood of Normoxic and Hypoxic Sheep During Nitric Oxide Inhalation," American Journal of Physiology, 274(1):H349-H357 (1998).
(	AZ4	Vanin, Anatoly F. et al., "Iron Catalyzes Both Decomposition and Synthesis of S-Nitrosothiols: Optical and Electron Paramagnetic Resonance Studies," Nitric Oxide: Biology and Chemistry, 1(3):191-203 (1997).
	AR5	Vaughn, Mark W. et al., "Erythrocytes Possess an Intrinsic Barrier to Nitric Oxide Consumption," Journal of Biological Chemistry, 275(4):2342-2348 (2000).
	AS5	Walder, Joseph A. et al., "The Interaction of Hemoglobin with the Cytoplasmic Domain of Band 3 of the Human Erythrocyte Membrane," Journal of Biological Chemistry, 259(16):10238-10246 (1984).
	AT5	Wessel, David L. et al., "Use of Inhaled Nitric Oxide and Acetylcholine in the Evaluation of Pulmonary Hypertension and Endothelial Function After Cardiopulmonary Bypass," Circulation, 88(5):2128-2138 (1993).
	AU5	Wong, Bradley K. et al., "Dose-Dependent Pharmacokinetics of L-693,612, a Carbonic Anhydrase Inhibitor, Following Oral Administration in Rats," <i>Pharmaceutical Research</i> , 11(3):438-441 (1994).
00	AV5	Yonetani, Takashi et al., "Electron Paramagnetic Resonance and Oxygen Binding Studies of α-Nitrosyl Hemoglobin," Journal of Biological Chemistry, 273(32):20323-20333 (1998).
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